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Serial Number: 10/774,091

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 **PALM INTRANET**

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| US 20060103853 A1 | 20060518 | Optical projection system | 356/601 | | Palmateer; John W. |
| US 20050172470 A1 | 20050811 | Methods and systems for large-scale airframe assembly | 29/407.1 | 29/407.09; 29/430; 29/714 | Cobb, James M. et al. |
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| US 7062980 B2 | 20060620 | Bicycle shift control device with decreased stress during shifting | 73/862.31 | | Takamoto; Ryuichiro et al. |
| US 7061228 B2 | 20060613 | Apparatus for detecting rotation of a bicycle part | 324/174 | 324/179; 340/432; 73/514.39 | Ichida; Tadashi et al. |
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| US 6357783 B1 | 20020319 | Snowboard binding | 280/624 | 280/14.21; 280/14.22; 280/617; 280/626 | Okajima; Shinpei et al. |
| US 6353992 B1 | 20020312 | Method of manufacturing a bicycle crank | 29/527.5 | 164/91; 164/98; 29/897.2 | Mizobe; Eiji |
| US 6349614 B1 | 20020226 | Bicycle cable connector for splicing two cables in series | 74/502.6 | 74/501.5R | Matsuo; Nobuyuki |
| US 6341538 B1 | 20020129 | Cable connecting apparatus for a bicycle component | 74/502.6 | 188/24.19; 188/24.21; 474/79; 474/80; 474/82; 74/502.4 | Takachi; Takeshi |
| US 6328268 B1 | 20011211 | Attachment piece for a bicycle display device | 248/230.1 | 248/214 | Irie; Yoshinori |
| US 6325739 B1 | 20011204 | Bicycle hub transmission with a mechanism for stopping rotation of one or more sun gears relative to another member | 475/298 | 475/288 | Hino; Tetsuya |
| US 6325386 B1 | 20011204 | Rotatable seal assembly for a bicycle hub transmission | 277/500 | 277/551; 277/572; 384/486; 475/285; 475/297 | Shoge; Akihiko |
| US 6324938 B1 | 20011204 | Locking bicycle cable connecting apparatus | 74/502.6 | 403/309 | Okouchi; Hiroyuki |

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| US 6312355 B1 | 20011106 | Bicycle transmission that shifts when a driver is in a predetermined rotational position | 475/289 | 192/217.4; 475/298 | Nishimoto; Naohiro |
| US 6305241 B1 | 20011023 | Handlebar adapter for mounting a bicycle display | 74/551.8 | 224/420 | Masui; Takuji et al. |
| US 6305237 B1 | 20011023 | Bicycle shift control device for controlling a gas actuated shifting device | 74/473.11 | 474/101; 474/82; 74/473.13; 74/488 | Ichida; Tadashi |
| US 6293883 B1 | 20010925 | Quick release derailleur | 474/82 | 474/78 | Ichida; Tadashi |
| US 6293882 B1 | 20010925 | Operating force compensating apparatus for a bicycle transmission | 474/80 | 474/70 | Kitamura; Satoshi et al. |
| US 6287228 B1 | 20010911 | Rear derailleur with cable guide roller | 474/82 | 474/80 | Ichida; Tadashi |
| US 6277044 B1 | 20010821 | Front derailleur with protective plate and connecting band | 474/80 | 474/82 | Fujimoto; Tadao |
| US 6276885 B1 | 20010821 | Bicycle crank arm parts/assembly and assembly tools | 411/403 | | Yamanaka; Masahiro |
| US 6276231 B1 | 20010821 | Grip for a bicycle shift control device | 74/551.9 | 74/489 | Yamane; Takuro |
| US 6276227 B1 | 20010821 | Bicycle shift control device | 74/489 | 474/166; 474/80; 74/502.2; 74/506 | Ose; Kenji |
| US 6244415 B1 | 20010612 | Motor controlled shift | 192/217 | 474/70; 74/473.14 | Fujii; Kazuhiro |

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| | | control device including an idler gear for a bicycle transmission | | | |
| US 6227070 B1 | 20010508 | Bicycle crank and method for manufacturing same | 74/594.1 | 29/897.2 | Mizobe; Eiji et al. |
| US 6227069 B1 | 20010508 | Grip for a bicycle shift control device | 74/551.9 | 16/411; 74/489 | Yamane; Takuro |
| US 6227068 B1 | 20010508 | Bicycle control device having a rotatable dial | 74/473.3 | 200/61.85 | Masui; Takuji et al. |
| US 6216078 B1 | 20010410 | Electrical operating device for bicycles | 701/70 | 188/24.11; 340/427; 340/432 | Jinbo; Masahiko et al. |
| US 6216060 B1 | 20010410 | Bicycle display apparatus switchable into diagnostic modes | 701/1 | 340/427; 340/432; 340/438; 340/439; 701/49 | Kishimoto; Hitoshi |
| US 6213910 B1 | 20010410 | Bicycle antitheft control device, shifting device and shifting system | 475/297 | 340/427; 340/432; 70/233 | Matsuo; Nobuyuki et al. |
| US 6212972 B1 | 20010410 | Grip for a bicycle shift control device | 74/551.9 | 16/421; 74/489 | Yamane; Takuro |
| US 6209858 B1 | 20010403 | Bicycle shock absorber linked together through first and second annular members | 267/201 | 267/279; 267/292; 280/259 | Fujii; Kazuhiro |
| US 6206799 B1 | 20010327 | Bicycle antitheft control device, shifting device and shifting system | 475/297 | 70/233 | Matsuo; Nobuyuki et al. |
| US 6206151 | 20010327 | Ventilated pad | 188/250B | 188/250G; | Nakamura; |

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| B1 | | for a bicycle disc brake | | 188/73.1 | Yasushi |
| US RE37099 E | 20010320 | Brake apparatus for a bicycle | 188/24.14 | 74/388R | Hanada; Mitsugu |
| US 6202813 B1 | 20010320 | Pawl noise dampening mechanism for a bicycle freewheel | 192/64 | 192/46; 74/576 | Yahata; Yasuhiro et al. |
| US 6199446 B1 | 20010313 | Indicator unit for a bicycle shift control device | 74/502.2 | 116/28.1; 116/284; 74/107; 74/109; 74/473.14; 74/489; 74/DIG.7 | Ose; Kenji |
| US 6195894 B1 | 20010306 | Bicycle crank and method for manufacturing same | 29/897.2 | 164/132; 164/98; 29/527.3; 29/527.5; 29/527.6; 74/594.1 | Mizobe; Eiji et al. |
| US 6192300 B1 | 20010220 | Bicycle computer | 701/1 | 340/432 | Watarai; Etsuyoshi et al. |
| US 6178631 B1 | 20010130 | Method of heating and quenching a hollow metal member | 29/857 | 74/594.1 | Tanabe; Shin et al. |
| US 6176798 B1 | 20010123 | Multiple sprocket assembly for a bicycle | 474/160 | 474/902 | Nakamura; Yasushi |
| US 6164682 A | 20001226 | Snowboard binding | 280/613 | 280/14.22 | Okajima; Shinpei et al. |
| US 6164677 A | 20001226 | Bicycle antitheft control device, shifting device and shifting system | 280/297 | 280/288.4; 70/233 | Matsuo; Nobuyuki et al. |
| US 6162140 A | 20001219 | Motor driven derailleur | 474/70 | 474/80; 474/81 | Fukuda; Masahiko |
| US 6159119 A | 20001212 | Gas actuating mechanism for | 474/80 | 474/78 | Nakamura; Yasushi et al. |

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| | | a bicycle derailleur | | | |
| US 6155383 A | 20001205 | Bicycle brake device | 188/24.12 | 188/24.15 | Sugimoto; Masanori |
| US 6152847 A | 20001128 | Bicycle antitheft control device, shifting device and shifting system | 475/158 | 280/288.4; 475/298 | Matsuo; Nobuyuki et al. |
| US 6149541 A | 20001121 | Gas actuated derailleur having an indexing mechanism for setting a chain guide in a plurality of fixed positions | 474/80 | 474/122 | Nakamura; Yasushi et al. |
| US 6149176 A | 20001121 | Bicycle shock absorber with multilayered shock absorbing members | 280/284 | 192/209; 280/259; 74/594.1 | Fujii; Kazuhiro |
| US 6146297 A | 20001114 | Bicycle automatic shift control device with varying shift speeds | 474/78 | 280/238 | Kimura; Yoshiki |
| US 6145184 A | 20001114 | Method of manufacturing hollow bicycle crank arm | 29/527.6 | 164/132; 29/557; 29/897.2 | Yamanaka; Masahiro |
| US 6135906 A | 20001024 | Gas actuating device with an exhaust passage that prevents contamination of an actuating member | 474/82 | 474/104; 474/110; 91/433; 91/442 | Ichida; Tadashi |
| US 6135905 A | 20001024 | Derailleur cable router with a cable housing support that | 474/82 | 180/231; 474/80 | Soon; Yeo Yong |

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| | | pivots in multiple directions | | | |
| US 6135474 A | 20001024 | Vehicle frame | 280/216 | 280/288.3 | Nakamura; Yasushi |
| US 6134980 A | 20001024 | Internal bicycle hub transmission having an operating unit disposed inboard of the free end of an axle | 74/473.14 | 192/217.4; 475/297; 475/298; 74/502 | Uchiyama; Yuzuru |
| US D432056 S | 20001017 | Bicycle rear derailleur | D12/124 | | Hanamura; Junichi |
| US 6128973 A | 20001010 | Bicycle pedal system having variable tread surfaces | 74/594.6 | 403/24; 74/594.4; D12/125 | Nagano; Masashi |
| US 6117032 A | 20000912 | Protective plate for bicycle chain | 474/80 | 474/69 | Nankou; Yoshiaki |
| US RE36830 E | 20000822 | Low-friction derailleur cable router | 474/79 | 474/80 | Lumpkin; Wayne R. |
| US 6104975 A | 20000815 | Method and apparatus for calculating a pseudo crank rotational speed for a bicycle | 701/93 | 474/70; 701/55 | Matsuo; Nobuyuki |
| US 6102821 A | 20000815 | Multiple sprocket assembly for a bicycle | 474/160 | 474/164 | Nakamura; Yasushi |
| US 6101895 A | 20000815 | Grip for a bicycle shift control device | 74/551.9 | 74/489 | Yamane; Takuro |
| US 6089122 A | 20000718 | Connecting structure between bicycle pedal and cleat, bicycle pedal and cleat | 74/594.6 | 36/131 | Nagano; Masashi |

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| US 6084506 A | 20000704 | Display apparatus for a bicycle | 340/432 | 345/33; 715/764 | Irie; Yoshinori |
| US 6083136 A | 20000704 | Bicycle hub transmission with a shift key that is axially immovable relative to a clutch member | 475/297 | | Shoge; Akihiko |
| US 6079294 A | 20000627 | Bicycle crank and method for manufacturing same | 74/594.1 | | Mizobe; Eiji |
| US 6073730 A | 20000613 | Bicycle switch and bracket cover therefor | 188/24.11 | 340/432; 74/489 | Abe; Takeo |
| US 6073061 A | 20000606 | Bicycle operating method using predicted values | 701/1 | 280/260 | Kimura; Yoshiki |
| US 6069788 A | 20000530 | Foldable bicycle computer | 361/683 | 324/160; D10/98 | Masui; Takuji |
| US 6066057 A | 20000523 | Gas actuated derailleur having an indexing mechanism for setting a chain guide in a plurality of fixed positions | 474/79 | 280/216; 474/104; 474/82 | Nakamura; Yasushi et al. |
| US 6059171 A | 20000509 | Bicycle crank and manufacturing method | 228/164 | 228/125; 74/594.1; 74/594.2 | Yamanaka; Masahiro et al. |
| US 6058803 A | 20000509 | Hollow bicycle crank and method for manufacturing same | 74/594.1 | 280/259; 29/897.2; D12/123 | Yamanaka; Masahiro |
| US 6057657 A | 20000502 | Magnetically operated bicycle antitheft device | 318/16 | 318/520; 70/233 | Kitamura; Satoshi |

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| US 6039665 A | 20000321 | Multiple sprocket assembly for a bicycle | 474/157 | 474/160 | Nakamura; Yasushi |
| US 6039153 A | 20000321 | Bicycle brake with link-adjusted brake shoes | 188/24.22 | 188/24.19; 74/522 | Sugimoto; Masanori |
| US 6035558 A | 20000314 | Snowboard boot | 36/117.1 | 36/117.2; 36/118.2; 36/89; 36/93 | Okajima; Shinpei |
| US 6030307 A | 20000229 | Rear derailleur with a cable guide roller | 474/175 | 474/179 | Oka; Mitsuo |
| US 6030052 A | 20000229 | Bicycle hub shell with removable flanges | 301/110.5 | 301/124.2; 301/59 | Watarai; Etsuyoshi et al. |
| US 6015159 A | 20000118 | Method and apparatus for shifting a bicycle transmission | 280/238 | 280/236; 280/260; 474/103; 474/70 | Matsuo; Nobuyuki |
| US 6015118 A | 20000118 | Control cable guide for a bicycle | 248/65 | 280/288.4; 74/502.2 | Oda; Hiromi |
| US 6015036 A | 20000118 | Electrical shift control device for a bicycle transmission | 192/217 | 192/226 | Fukuda; Masahiko |
| US 6014913 A | 20000118 | Hollow crank spindle unit for bicycles | 74/594.1 | 384/545 | Masahiro; Yamanaka |
| US 6014910 A | 20000118 | Protective cap-system for bicycle cable | 74/502.6 | 74/500.5; 74/501.5R; 74/502.4 | Oda; Hiromi et al. |
| US 6013005 A | 20000111 | Bicycle hub transmission with a cylindrical bolt for coupling a weight support to a hub shell | 475/259 | 192/105CE; 192/3.52 | Tabe; Koshi |
| US 6013001 A | 20000111 | Bicycle sprocket having recesses | 474/160 | 474/156; 474/164 | Miyoshi; Hiroyuki |

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| | | beneath chain receiving edges | | | |
| US 6012353 A | 20000111 | Gear position sensing unit | 74/502.2 | 74/473.13; 74/473.28; 74/488 | Kawakami; Tatsuya |
| US 6012237 A | 20000111 | Multiple jointed back support system for a snowboard boot | 36/118.2 | 36/117.1; 36/118.9 | Okajima; Shinpei et al. |
| US 6010425 A | 20000104 | Automatic bicycle hub transmission using flyweights | 475/259 | 192/64 | Tabe; Koshi |
| US 6004240 A | 19991221 | Bicycle hub transmission having a two-piece driver | 475/259 | 192/64 | Tabe; Koshi |
| US 5988325 A | 19991123 | Bicycle brake | 188/24.11 | 188/24.14; 188/26; 74/388R | Matsueda; Keiji |
| US 5967937 A | 19991019 | Motorized shift assist control apparatus for bicycle transmission | 475/297 | 475/298 | Matsuo; Nobuyuki |
| US 5964679 A | 19991012 | Internally mounted bicycle transmission using roller clutches | 475/297 | 475/296; 475/298 | Matsuo; Nobuyuki et al. |
| US 5964678 A | 19991012 | Internally mounted bicycle transmission | 475/297 | 192/217.4; 475/298 | Hanada; Mitsugu et al. |
| US 5961416 A | 19991005 | Internally mounted bicycle transmission | 475/297 | 192/217 | Shoge; Akihiko |
| US 5961409 A | 19991005 | Rear derailleur for a bicycle | 474/82 | 474/80 | Ando; Yoshiaki |
| US 5957792 A | 19990928 | Cable support for a derailleur | 474/83 | 474/127 | Ando; Yoshiaki |

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| US 5957592 A | 19990928 | Expandable bearing retainer | 384/526 | 384/531 | Yamanaka; Masahiro |
| US 5954604 A | 19990921 | Multiple sprocket assembly for a bicycle | 474/160 | 474/158; 474/78 | Nakamura; Yasushi |
| US 5950335 A | 19990914 | Snowboard boots | 36/115 | 36/50.5; 36/55; 36/89; 36/91 | Okajima; Shinpei |
| US 5945794 A | 19990831 | Power saving antitheft control device for a bicycle | 318/16 | 318/520 | Kitamura; Satoshi |
| US 5941125 A | 19990824 | Bicycle shifting apparatus having remotely located levers for operating a single transmission | 74/473.14 | 74/480R; 74/489; 74/502.2 | Watarai; Etsuyoshi et al. |
| US 5931753 A | 19990803 | Rear derailleur with shock absorber | 474/82 | 474/80 | Ichida; Tadashi |
| US 5928103 A | 19990727 | Internal bicycle hub transmission with a clutch that rotates and moves axially | 475/297 | | Shoge; Akihiko |
| US 5924328 A | 19990720 | Braking device for bicycles | 74/489 | 188/2D; 74/502.2 | Okajima; Shinpei et al. |
| US 5921881 A | 19990713 | Narrow bicycle chain with inner links that receive sprocket teeth within a bottom recess | 474/217 | 474/157; 474/220; 474/229 | Nakamura; Yasushi |
| US 5921139 A | 19990713 | Bicycle shift control device | 74/473.13 | 74/143; 74/489; 74/505 | Yamane; Takuro |
| US 5921138 A | 19990713 | Bicycle shift device having a linearly | 74/473.13 | 74/473.14; 74/489; 74/502.2 | Kojima; Masao et al. |

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| | | sliding shift lever | | | |
| US 5919106 A | 19990706 | Quick release derailleur | 474/82 | 474/78 | Ichida; Tadashi |
| US 5915821 A | 19990629 | Snowboard boot | 36/117.1 | 36/118.2; 36/118.7; 36/118.8; 36/118.9 | Okajima; Shinpei et al. |
| US 5913388 A | 19990622 | Bicycle brake device | 188/24.22 | 188/24.12; 188/24.15 | Ota; Katsuyuki et al. |
| US 5909931 A | 19990608 | Bicycle hub | 301/110.5 | | Tabe; Koshi |
| US 5908089 A | 19990601 | Cantilever brake device | 188/24.21 | 188/2D; 188/24.19 | Sugimoto; Masanori |
| US 5907980 A | 19990601 | Bicycle crank arm parts/assembly and assembly tools | 74/594.1 | 411/302; 81/436 | Yamanaka; Masahiro |
| US 5904629 A | 19990518 | Rear derailleur with a cable guide roller and a pivoting cable casing support | 474/78 | 180/231; 474/82 | Oka; Mitsuo |
| US 5903214 A | 19990511 | Bicycle display apparatus | 340/432 | 200/61.85; 200/61.88; 200/61.91; 324/207.2; 324/207.25; 340/456; 340/461; 340/525; 74/473.1 | Watarai; Etsuyoshi |
| US 5900705 A | 19990504 | Motor control device for a bicycle | 318/286 | 180/221; 318/2; 70/233 | Kimura; Yoshiki |
| US 5897451 A | 19990427 | Bicycle derailleur having operating forces disposed on opposite sides of a link pivot | 474/82 | 474/78; 474/80 | Ichida; Tadashi |
| US 5894759 | 19990420 | Bicycle shift | 74/473.13 | 74/480R; | Nakamura; |

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| A | | control device having spaced apart operating units | | 74/489 | Yasushi |
| US 5886623 A | 19990323 | Bicycle display device which displays tire information | 340/432 | 324/160; 340/525 | Jinbo; Masahiko et al. |
| US 5882274 A | 19990316 | Internally mounted bicycle transmission | 475/297 | 475/298 | Shoge; Akihiko |
| US 5882088 A | 19990316 | Bicycle hub | 301/110.5 | 301/59 | Yahata; Yasuhiro |
| US 5875687 A | 19990302 | Protective cap system for bicycle cable | 74/502.4 | 74/502.5 | Oda; Hiromi et al. |
| US 5868043 A | 19990209 | Bicycle pedal | 74/594.6 | | Ueda; Yutaka |
| US 5865276 A | 19990202 | Cantilever brake device | 188/24.21 | 188/24.12 | Sugimoto; Masanori |
| US 5862711 A | 19990126 | Apparatus for sealing a bicycle control cable | 74/502.4 | 74/501.5R; 74/502.6 | Oda; Hiromi |
| US 5862709 A | 19990126 | Bicycle shift control device | 74/489 | 74/501.6; 74/502.2 | Kageyama; Tomohiko |
| US 5860880 A | 19990119 | Low normal bicycle derailleur which allows lateral movement of the chain guide toward the rear wheel in response to a force directed laterally towards the rear wheel | 474/77 | 474/82 | Oka; Mitsuo |
| US 5857932 A | 19990112 | Cable operated control apparatus | 474/82 | 188/24.22; 74/502.2; 74/502.3 | Sugimoto; Masanori |
| US 5855529 A | 19990105 | Apparatus for guiding a control cable | 474/80 | 188/24.12; 254/394; 74/502.6 | Sugimoto; Masanori |

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| US 5852954 A | 19981229 | Bicycle crank arm parts/assembly and assembly tools | 74/594.1 | 74/594.2; 81/176.1; 81/436; 81/459 | Yamanaka; Masahiro |
| US D402948 S | 19981222 | Brake unit for a bicycle | D12/180 | | Nishimura; Tomohiko |
| US 5850702 A | 19981222 | Snowboard boot sole | 36/31 | 36/107; 36/115; 36/117.3 | Okajima; Shinpei |
| US 5848555 A | 19981215 | Auxiliary shift lever for use with a bicycle shifting device | 74/473.13 | 74/480R; 74/489; 74/544; 74/551.8 | Watarai; Etsuyoshi |
| US 5847641 A | 19981208 | Bicycle computer | 340/432 | 340/438; 340/456; 340/459; 340/461; 340/601; 340/870.01; 702/142; 702/158 | Jinbo; Masahiko |
| US 5846148 A | 19981208 | Bicycle front derailleur | 474/80 | | Fujii; Kazuhiro |
| US 5845543 A | 19981208 | Bicycle crank arm parts/assembly and assembly tools | 74/594.1 | 74/594.2 | Yamanaka; Masahiro |
| US 5833040 A | 19981110 | Internal bicycle transmission with a coaster brake | 192/217.3 | 475/297 | Hanada; Mitsugu |
| US 5832782 A | 19981110 | Brake and shifting device | 74/473.13 | 116/28.1; 192/215; 74/489; 74/502.2 | Kawakami; Tatsuya |
| US 5829563 A | 19981103 | Internal bicycle transmission with a coaster brake | 192/223 | 192/217.4; 475/298 | Shoge; Akihiko |
| US 5828145 A | 19981027 | Bicycle generator-containing hub and a lighting | 310/67A | 310/263; 362/192 | Nakamura; Kazunori |

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| | | apparatus using the hub | | | |
| US 5822889 A | 19981020 | Bicycles shoes | 36/131 | | Ueda; Yutaka |
| US 5819880 A | 19981013 | Bicycle brake shoe holder | 188/24.22 | 188/250G | Ota; Katsuyuki et al. |
| US 5819600 A | 19981013 | Bicycle crank arm parts/assembly and assembly tools | 74/594.1 | 74/594.2 | Yamanaka; Masahiro |
| US 5819599 A | 19981013 | Bicycle crank arm parts/assembly and assembly tools | 74/594.1 | 74/594.2 | Yamanaka; Masahiro |
| US 5819589 A | 19981013 | Bicycle brake operating device | 74/489 | 74/104; 74/516 | Nakashima; Yuji et al. |
| US 5819440 A | 19981013 | Back support for a snowboard boot | 36/117.1 | 36/115; 36/88 | Okajima; Shinpei |
| US 5816377 A | 19981006 | Bicycle freewheel | 192/64 | 192/46 | Nakamura; Yasushi |
| US 5809840 A | 19980922 | Protective cap system for bicycle cable | 74/502.6 | 74/500.5; 74/501.5R; 74/502.4 | Oda; Hiromi et al. |
| US 5806375 A | 19980915 | Apparatus for sealing a bicycle control cable | 74/501.5R | 74/502.4; 74/502.6 | Oda; Hiromi |
| US 5802923 A | 19980908 | Shifting apparatus for a bicycle | 74/473.13 | 74/489 | Hara; Nobukatsu |
| US 5799544 A | 19980901 | Apparatus for sealing a bicycle control cable | 74/502.4 | 74/502.6 | Oda; Hiromi |
| US 5799542 A | 19980901 | Bicycle shift control device | 74/489 | 74/142; 74/473.1; 74/502.2 | Yamane; Takuro |
| US 5788593 A | 19980804 | Multiple sprocket assembly adapted to | 474/160 | | Tiong; Khoo Kean |

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| | | bicycle | | 345/35; 434/61; 474/81; 482/57; 482/902; 74/489; D12/114 | |
| US 5620384 A | 19970415 | Front derailleur for a bicycle | 474/82 | 474/123 | Kojima; Satoru et al. |
| US 5618241 A | 19970408 | Bicycle shifting device | 474/80 | 474/127; 74/489; 74/502.3 | Ose; Kenji |
| US 5617761 A | 19970408 | Shifting apparatus for a bicycle | 74/473.13 | 74/142; 74/489 | Kawakami; Tatuya |
| US 5609064 A | 19970311 | Shifting apparatus for a bicycle | 74/502.2 | 116/28.1; 74/489 | Abe; Takeo |
| US 5590564 A | 19970107 | Bicycle control device | 74/473.13 | 74/108; 74/489; 74/502.2; 74/527 | Kishimoto; Hitoshi |
| US 5579879 A | 19961203 | One-way clutch | 192/45 | 192/109R | Hasegawa; Kiyoshi |
| US 5577969 A | 19961126 | Shifting apparatus for operating front and rear derailleurs with a single manual level | 474/78 | | Watarai; Etsuyoshi |
| US 5564310 A | 19961015 | Shifting apparatus for a bicycle having locking members enclosed radially within a takeup element | 74/489 | 74/473.13; 74/502.2 | Kishimoto; Hitoshi |
| US 5562563 A | 19961008 | Control system for a working apparatus for use on a bicycle | 475/298 | 475/289; 475/312 | Shoge; Akihiko |
| US 5535855 | 19960716 | Bicycle hub | 188/24.14 | 188/26; | Hanada; |

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| A | | brake | | 74/388R | Mitsugu |
| US 5524734 A | 19960611 | Brake apparatus for a bicycle which corrects braking force in a region of strong braking force | 188/26 | 188/323 | Hanada; Mitsugu |
| US 5518456 A | 19960521 | Bicycle derailleur | 474/77 | 474/82 | Kojima; Satoru et al. |
| US 5515946 A | 19960514 | Brake unit for a bicycle | 188/24.21 | 188/24.12 | Sugimoto; Masanori et al. |
| US 5496222 A | 19960305 | Front derailleur for a bicycle | 474/80 | | Kojima; Satoru et al. |
| US 5495920 A | 19960305 | Braking force adjusting apparatus for a bicycle | 188/24.22 | 188/24.19 | Tsuyoshi; Sakashita |
| US 5029280 A | 19910702 | ECL circuit for resistance and temperature bus drop compensation | 327/540 | 326/126; 327/513; 327/594 | Yee; Loren W. et al. |
| US 4811215 A | 19890307 | Instruction execution accelerator for a pipelined digital machine with virtual memory | 712/214 | | Smith; Alan J. |
| US 4795984 A | 19890103 | Multi-marker, multi-destination timing signal generator | 327/269 | 327/273; 377/26; 377/39 | Janssen; James R. |
| US 4791314 A | 19881213 | Oscillation-free, short-circuit protection circuit | 326/32 | 326/56; 326/89; 326/90; 361/101 | Kuo; James R. et al. |
| US 4791313 A | 19881213 | Bipolar transistor switching enhancement | 327/109 | 327/376; 327/482; 330/156 | Kuo; James R. et al. |

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| | | circuit | | | |
| US 4785178 A | 19881115 | Dry storage irradiator structure | 250/497.1 | 250/454.11; 250/515.1; 378/64; 976/DIG.353 | Lynch; Patrick A. et al. |
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